

Claims:

1. A wall structure comprising a first layer having a density of about 0.5 - 3 lb./ft³, a second, reinforcing layer selected from the group consisting of a polymer fabric, a biaxially oriented polymeric film or a fiberglass reinforced material.

2. The wall structure of Claim 1, additionally comprising a third layer comprising a cellulosic material laminated to said second, reinforcing layer.

3. The wall structure of Claim 1, wherein said first layer comprises a foamed material.

4. The wall structure of Claim 3, wherein said foamed material is an organic material.

5. The wall structure of Claim 4, wherein said organic material is selected from the group consisting of polystyrene and polyurethane.

6. The wall structure of Claim 1, wherein said first layer comprises a fiberboard material.

7. The wall structure of Claim 1, wherein said second, reinforcing layer is a polymer fabric made of a thermoplastic material.

8. The wall structure of Claim 7, wherein said thermoplastic material is selected from the group consisting of polyethylene and polypropylene.

9. The wall structure of Claim 7, wherein the polymer fabric is woven.

19/10. The wall structure of Claim ~~1~~¹⁵, wherein the polymer fabric is unwoven.

5 11. The wall structure of Claim ~~1~~²³, wherein said second, reinforcing layer is a biaxially oriented polymeric film made of a thermoplastic material.

12. The wall structure of Claim 11, wherein the thermoplastic material is a polyolefin or a polyester.

10 13. The wall structure of Claim ~~1~~³³, wherein the second, reinforcing layer is a fiberglass reinforced material.

15 14. The wall structure of Claim 13, wherein the material is a paper or a plastic.

3 15. The wall structure of Claim 2, wherein the cellulosic layer has a plastic film formed thereon.

20 16. The wall structure of Claim 2, wherein the cellulosic layer is impregnated with a member selected from the group consisting of a resin, an adhesive and mixtures thereof.

25 5 17. The wall structure of Claim ~~16~~⁴, wherein said cellulosic layer is impregnated with a urethane.

30 6 18. The wall structure of Claim ~~16~~⁴, wherein said cellulosic layer is impregnated with a polyester.

7 19. The wall structure of Claim ~~16~~⁴, wherein said cellulosic layer is impregnated with a urethane and a polyester.

35

~~8~~ 20. The wall structure of Claim ~~16~~⁴, wherein said cellulosic layer is impregnated to a degree of saturation of from about 3 to 100%.

5 ~~9~~ 21. The wall structure of Claim ~~16~~⁴, wherein said cellulosic layer is impregnated to a degree of saturation of from about 25 to 50%.

10 ~~10~~ 22. The wall structure of Claim ~~16~~⁴, wherein said cellulosic layer is impregnated to a degree of saturation of about 35%.

15

ADD A
ADD B¹
ADD E³
7